Key to References:

1= Jan/Feb
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NFPA 58, *Liquefied Petroleum Gases*, 1997 edition, 5.86
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NFPA 266, *Fire Characteristics of Upholstered Furniture Exposed to Flaming Ignition*, 1997 edition, 5.86
NFPA 267, *Fire Characteristics of Mattresses and Bedding Assemblies Exposed to Flaming Ignition Source*, 1997 edition, 5.86
NFPA 299, *Protection of Life and Property from Wildfire*, 1997 edition, 2.96
NFPA 306, *Control of Gas Hazards on Vessels*, 1997 edition, represents 75 years of marine fire protection, 2.90
NFPA 497A, *Classification of Class I Hazardous Locations for Electrical Installations in Chemical Process Areas*, 1997 edition, 2.97
NFPA 720, *Recommended Practice for the Installation of Household Carbon Monoxide Warning Equipment*, 1997 edition, 5.86
NFPA 801, *Fire Protection for Facilities Handling Radioactive Materials*, 1997 edition, 5.86
NFPA 803, *Fire Protection for Light Water Nuclear Power Plants*, 1997 edition, 5.88
NFPA 909, *Protection of Cultural Resources*, 1997 edition, 2.97
NFPA 921, *Fire and Explosion Investigations*, 1997 edition, 5.88
NFPA 1001, *Fire Fighter Professional Qualifications*, 1997 edition, 2.99
NFPA 1021, *Fire Officer Professional Qualifications*, 1997 edition, 2.99
NFPA 1200, *Organization, Operation, Deployment, and Evaluation of Public Fire Protection and Emergency Medical Services*, Fall Meeting discussion, 5.88
NFPA 1500, *Fire Department Occupational Safety and Health Program*, 1997 edition, 2.99, 4.74
NFPA 1582, *Medical Requirements for Fire Fighters*, 1997 edition, 2.99
NFPA 1911, *Service Tests of Pumps on Fire Department Apparatus*, 1997 edition, 2.99
NFPA 1914, *Testing Fire Department Aerial Devices*, 1997 edition, 2.99
NFPA 1971, *Protective Ensemble for Structural Fire Fighting*, 1997 edition, consolidates testing, performance requirements for structural firefighting ensemble, 6.62
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